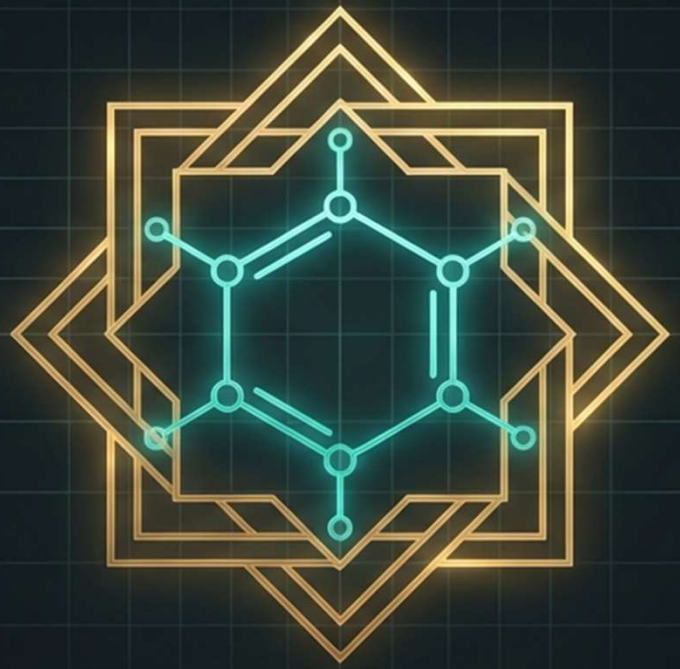

The Fiqh of Ethanol

Navigating the intersection of classical jurisprudence and modern industrial chemistry.

القرآن الكريم

سورة المائدة

بسم الله الرحمن الرحيم

يَٰٓأَيُّهَا ٱلَّذِينَ ءَامَنُوٓاْ إِنَّمَا ٱلۡخَمۡرُ وَٱلۡمَيۡسِرُ وَٱلۡأَنصَابُ
وَٱلۡأَزۡلَٰمُ رِجۡسٞ مِّنۡ عَمَلِ ٱلشَّيۡطَٰنِ فَٱجۡتَنِبُوهُ
لَعَلَّكُمۡ تُفۡلِحُونَ ٩٠

The prohibition is not limited to fermented grapes or dates; it applies universa
substance that induces intoxication, regardless of its origin or modern nam

The ‘Harm vs. Benefit’ Ledger

Perceived Benefits

- Temporary euphoria
- Perceived social lubrication
- Trace economic profit for sellers

The Actual Harms

- **Societal:** High rates of domestic violence, motor vehicle crashes (1,900 youth deaths/year in the US), and family breakdowns.
- **Spiritual:** Prevents the remembrance of Allah, nullifies prayers for 40 days, deadens noble passions of mercy.
- **Biological:** Turns the body into a processing plant for acetaldehyde (a known poison).

“They question thee about strong drinks... Say: In both is great sin, and [some] utility for men; but the sin of them is greater than their usefulness.” (Qur’an 2:219)

Muhammad ﷺ Said About:

Alcohol

(Wine/Drinking)

مَنْ شَرِبَ الْخَمْرَ فِي الدُّنْيَا، ثُمَّ لَمْ يَتُبْ
مِنْهَا، حُرِمَهَا فِي الآخِرَةِ

Whoever drinks wine (Alcohol) in this world and does not repent from it, will be deprived of it in the Hereafter.

Sahih al-Bukhari – Hadith 5575

The prohibition is not limited to fermented grapes or dates; it applies universa
substance that induces intoxication, regardless of its origin or modern nar

Dismantling the Ecosystem of Intoxication

The Prophet Muhammad (PBUH) stated that Allah has cursed ten categories of people associated with Khamr:

The Absolute Prohibition

1. The one who drinks it
2. The one who serves it
3. The one who sells it
4. The one who purchases it
5. The one who squeezes/brews it
6. The one for whom it is brewed
7. The one who carries/transports it
8. The one to whom it is carried
9. The one who benefits from its profits
10. The one who pours it

By criminalizing the supply chain, the service, and the profit, the Sharia[illegible] prevents the normalization and economic entrenchment of the substance.

The Hidden Toll: A Multi-System Map of Alcohol's Harms

A high-level overview of the physiological, mental, and societal damages caused by alcohol consumption.

Physiological & Mental Destruction

BAC 0.15 - 0.30

Memory loss, loss of bladder control, and possible loss of consciousness.

BAC 0.08 - 0.15

Slurred speech and severely impaired balance, coordination, and reflexes.

BAC 0.05 - 0.08

Impaired judgment, reduced inhibitions, and slowed movement.

Multi-Organ System Damage

Neurological Interference: Alcohol disrupts brain communication pathways, permanently damaging white matter and impairing cognitive function.

Alcohol targets the brain, liver, heart, and immune system, causing chronic inflammation and failure.

Known Human Carcinogen

Regular consumption is linked to cancers of the breast, liver, esophagus, and colon.

Societal & Behavioral Consequences

The Catalyst for Violence

95% of all violent crimes on college campuses involve alcohol use by the offender.

Erosion of Social Fabric

Intoxication leads to family breakdowns, domestic violence, and the loss of personal dignity.

Fatal Public Safety Risks

Daily, dozens die in alcohol-impaired motor vehicle crashes, the leading cause of youth disability.

Lesson Progression Map

A structured journey through definitions, legal principles, and modern applications

01

Foundations

- Everyday Substances Containing Alcohol
- Components of Khamr
- Defining Khamr
- Classification of Alcohols

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- Ritual Impurity (Najasah)
- Water Volume Thresholds (2 Qullahs)
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- Intoxicants: Large vs. Small Quantities
- The Negligible is Non-Existent (Al-Qaleelu)
- Widespread Hardship (Umoom Al-Balwa)

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- Fatawa on Trace Amounts
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05

Practical Guides

- Matters Judged by Intentions
- Decision Trees (Individuals
- C

The Mechanism: Covering the Intellect

سَكَرَ
(Sakara / Iskār)

- **Meaning:** To cloud, confuse, or veil the intellect.
- **Effect:** The physiological impairment of judgment.

خَمَرَ
(Khamara / Khamr)

- **Meaning:** To cover or conceal.
- **Linguistic Link:** Like a Khimār covers the head, Khamr covers the rational mind.

The Golden Rule

Every intoxicant is Khamr, and every intoxicant is Haram.

(Sahih Muslim)

Core Principle: Prohibition is not strictly tied to the liquid form. Anything that co
mind or impairs judgment (liquid, solid, or plant-based) falls under the prohibiti

The Foundational Principle: *Iskar* (Intoxication)

The Prophet (ﷺ) established the universal standard:
"Every intoxicant is Haram."

Absolute Prohibition (Haram)

1. Clouds the Mind
Obscures the intellect and cognitive function.

2. Impairs the Senses
Causes a loss of physical control and consciousness.

3. Removes Distinction
Creates an inability to discern right from wrong.

THE RULE OF QUANTITY

Whatever intoxicates in large amounts, a small amount of it is also forbidden.

Internal consumption of an intoxicant is prohib
regardless of th

NotebookLM

The Four Prohibited Beverages (*Al-Ashriba al-Arba'a*)

1. Raw Grape Wine (*Khamr* / خمر)

The raw juice of grapes left to ferment naturally until it becomes intoxicating and froths.

2. Ripe Grape Wine (*Tila'* / الطلاء)

Grape juice boiled down (with less than two-thirds evaporated) that remains intoxicating.

3. Palm/Date Wine (Naqi' al-Tamar / نقيع التمر)

Raw or cooked dates soaked in water that ferment and become intoxicating.

4. Raisin Wine (Naqi' al-Zabib / ...بب

Dried seedless grapes steeped in w... the mixture ferments and intoxi...

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The Origins of Alcohol Matrix

The Four Sources (*Ashribah Arba'*)

Raw grape juice, processed grape, dried grape (raisin), and date juice.

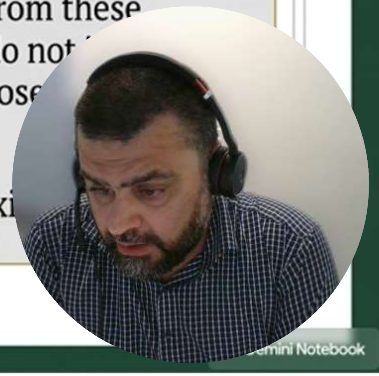
RULING:
Unanimously prohibited in any quantity (even a single drop), whether intoxicating or not, according to all scholars.

Other Sources

Honey, barley, synthetic ethanol, petroleum derivatives.

RULING (HANAFI DISTINCTION):
According to Imam Abu Hanifa, alcohol from these sources is permissible only at levels that do not [illegible] and when used for non-recreational purpose[illegible]

THE MAJORITY VIEW:
Prohibits them equally if they possess intoxi[illegible]



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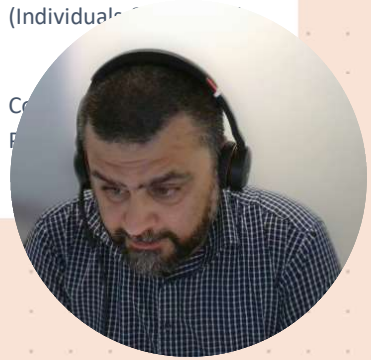
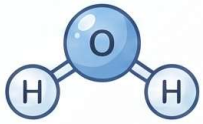


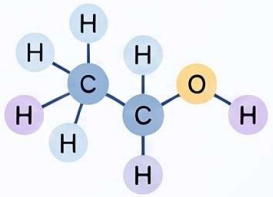
The Chemical Composition of Khamr

Primary Base & Active Agents



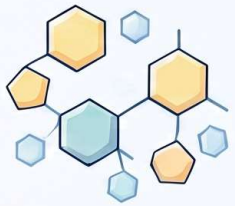
Water

The primary liquid solvent that serves as the base for the mixture.



Alcohol (Ethanol)

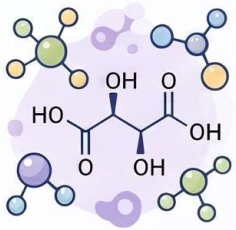
The specific aliphatic alcohol ($C2H_5OH$) responsible for the intoxicating effect.



Sugar / Carbohydrates

The essential organic compounds that undergo fermentation to produce ethanol.

Trace Elements & Sensory Characteristics



Acids (Tartaric Acid)

Organic acids naturally occurring in grapes and used as acidifiers in beverages.

Aroma / Smell Compounds

Volatile organic compounds that create the distinct scent and “fingerprint” of the drink

Minerals

Inorganic elements a
present within the
composition

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Legal Maxims

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Modern Context

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05

Practical Guides

- Matters Judged by Intentions
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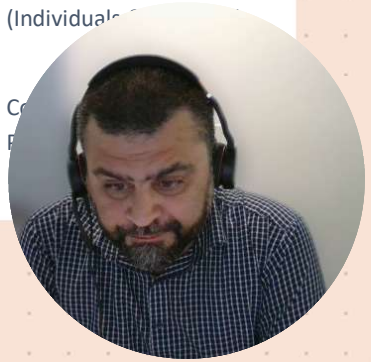


The Naturally Occurring Exception

Trace amounts of ethanol exist naturally in fresh fruits and halal drinks. The presence of the molecule alone does not render a food Haram if the volume cannot physically cause intoxication.

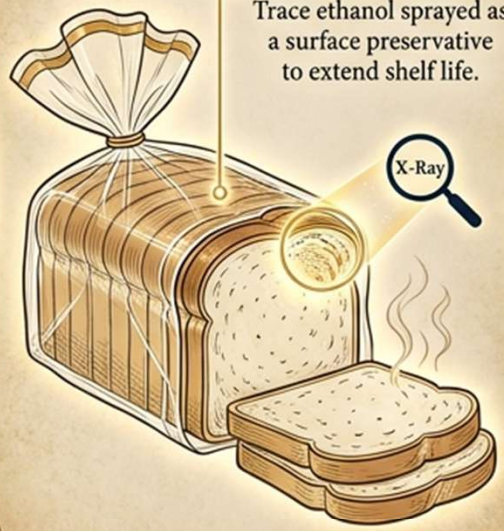
emini Notebook

The Alchemist's Ledger: X-Ray of a Modern Grocery Aisle

PACKAGED BREADS

Packaged Breads

Trace ethanol sprayed as a surface preservative to extend shelf life.



BAKED GOODS

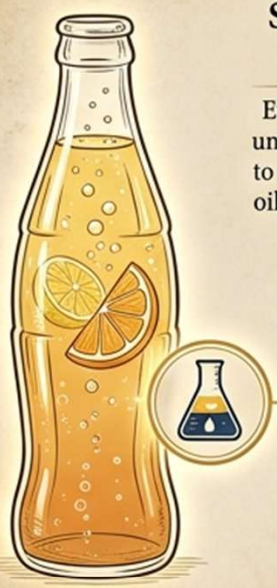
Baked Goods

Ethanol utilized as an essential carrier for vanilla and volatile flavorings.

SOFT DRINKS & JUICES

Soft Drinks & Juices

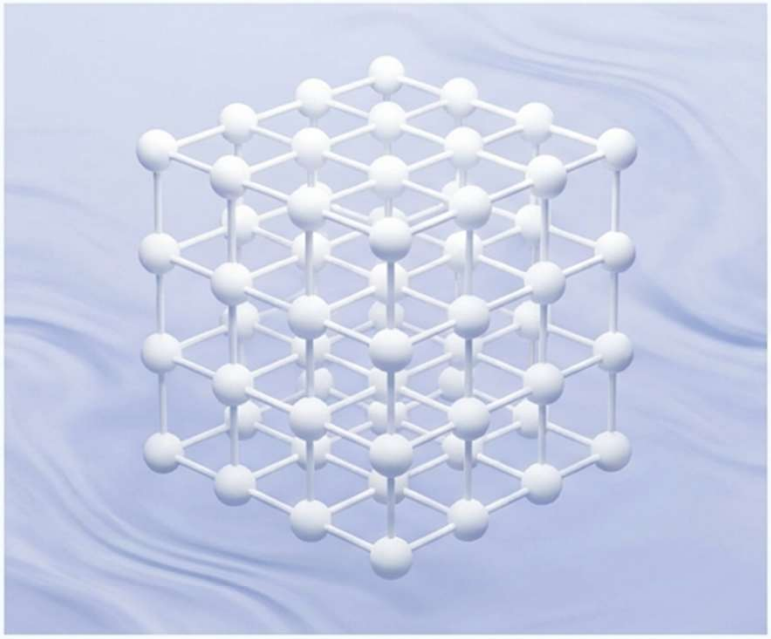
Ethanol acts as an unavoidable solvent to dissolve essential oils that do not mix with water.



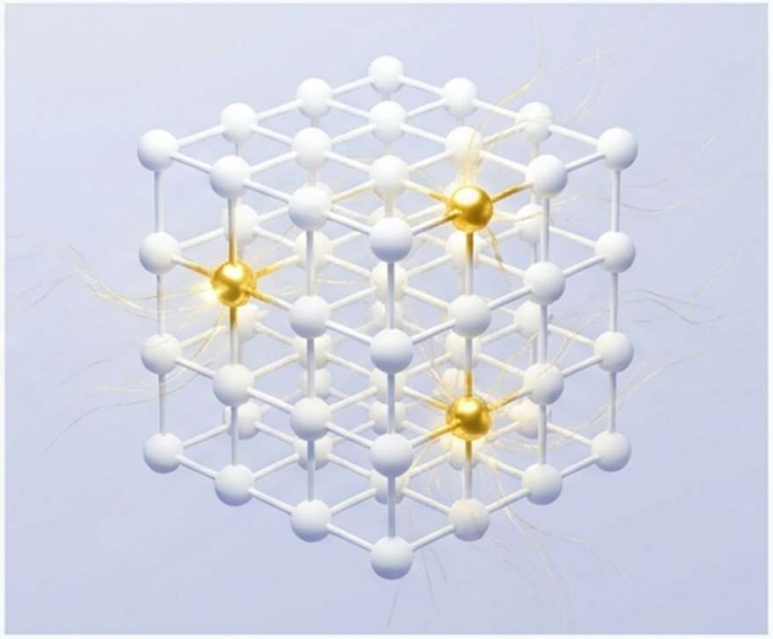
THE PREDICAMENT: The absolute Shariah prohibition of intoxicants vs. the unavoidable industrial reliance on ethanol as a solvent, carrier, and preservative.

The Impossibility of Absolute Molecular Purity

The Ideal



The Reality



In real-world, industrial-scale food manufacturing, achieving 100% absolute purity is **physically impossible**. Minor, trace contaminations—from residual chemical solvents to processing aids—are an inevitable reality of global supply chains.

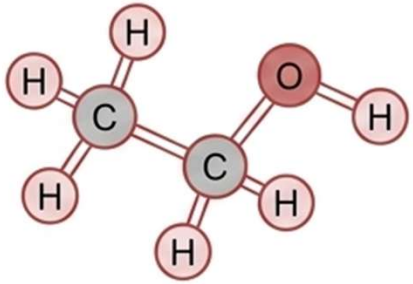
THE LEGAL PRINCIPLE

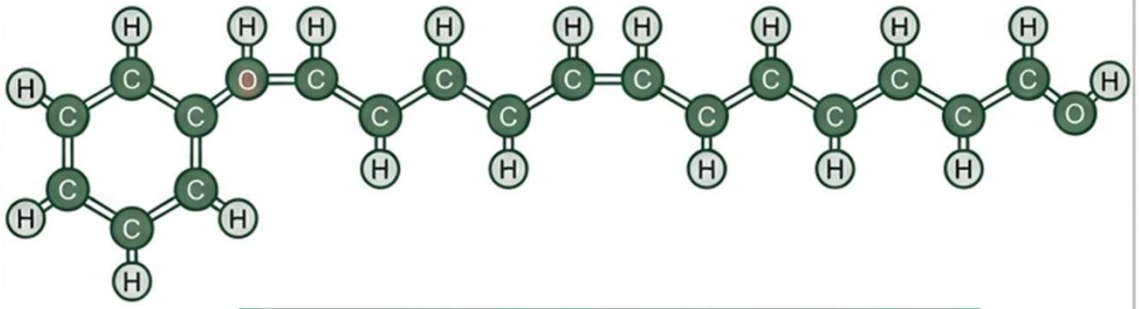
Umoom al-Balwa
(عُمُومُ الْبَلْوَى)

Translation: An unavoidable public predicament.

Application: Shariah does not impose impossible burdens. When a difficulty becomes widespread and una... la... stru... t...

The Cosmetic Molecule: Not All 'Alcohols' Are *Khamr*





ETHANOL (Ethyl Alcohol)

The specific aliphatic alcohol produced by fermentation that causes intoxication.

Subject to strict jurisprudential debate regarding impurity and consumption.

FATTY & CHEMICAL ALCOHOLS

Complex molecular structures (like Benzyl or Cetyl) used as emulsifiers, thickeners, or preservatives.

They do not cause intoxication and cannot be used to ferment liquors.

RULING: Fatty alcohols do not conform to the definition of *Khamr*. They are universally permissible for external use.

The Fiqh Blueprint: Sacred Texts Meet Modern Science

Ethanol
(Ethyl Alcohol)

Intoxicating

The active intoxicant in all alcoholic beverages (wine, beer, spirits).

This is the specific chemical subject to strict **Shari'ah dietary scrutiny**.

(الْخَمْرِ)

Methanol
(Methyl Alcohol)

Toxic, Non-Intoxicating

Highly poisonous. Found in glass cleaners and pesticides.

It does not cloud the intellect; it poisons the body.

It is Haram because it is lethal, not because it is Khamr.

Denatured & Industrial Alcohol

Intentionally Poisoned

Ethanol intentionally mixed with chemicals (like methanol) to render it foul, poisonous, and completely **unfit for human consumption**.

In halal assessment, 'alcohol' is not a blanket term. **Source, purpose, chemical composition**, and **end-use** are critical.

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Alcohols Are Not All the Same: Scientific Distinctions for Fiqh

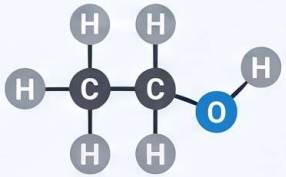
TERMINOLOGY BOX

R–OH **Alcohol** is a chemical family of compounds containing hydroxyl (–OH) groups, including glycols and sugar alcohols.

NON-INTOXICATING ALCOHOLS
(e.g., Glycerol, Sugar Alcohols)

Substance	Glycerol
Common Uses	Food, Cosmetics
Intoxicating?	✅ No
Key Teaching Point	A "triol" with no ordinary intoxicating effect.

ETHANOL

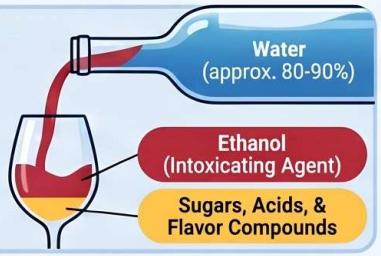


Industrial & Medical Uses
Disinfectant, Solvent

Beverage Use
Principal psychoactive agent in beer/wine

KHAMR CONNECTION

Khamr is a complex mixture; Ethanol is the constituent responsible for intoxication. In conventional beverages, ethanol is not an "added ingredient" but is naturally produced when yeast ferments sugars.



TOXIC INDUSTRIAL ALCOHOLS
(e.g., Methanol, Ethylene Glycol)

Substance	Methanol	Ethylene Glycol
Common Uses	Industrial Solvents	Antifreeze
Intoxicating?	❌ Toxic (Not Intoxicat	
Key Teaching Point	Highly dan causes bl and d	

FINAL TAKEAWAY

CHEMICAL NAME ≠ SHARĪ'AH RULING.

Science identifies properties; Sharī'ah principles determine the ruling based on those properties.

Key Finding: **ALCOHOL ≠ ETHANOL ≠ KHAMR**

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Modern Context

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05

Practical Guides

- Matters Judged by Intentions
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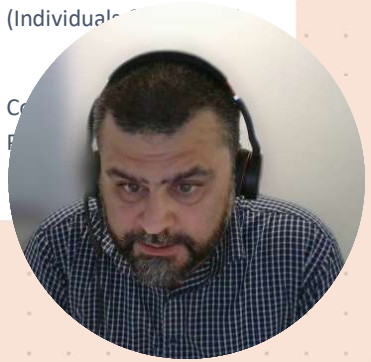

Najāsah (نَجَاسَة): Is Alcohol Physically Impure?

This debate determines the permissibility of external uses, such as perfumes and cosmetics.

Physical Impurity (*Najis*)

- **Implication**: Khamr is physically impure like blood or urine.
- **Application**: If it spills on clothes, the garment must be washed before prayer.
- **Verdict**: Perfumes containing ethanol are heavily restricted or avoided.

Metaphorical Impurity

- **Scholars**: Rabee'ah, Al-Layth, Muzni, and many contemporary councils.
- **Evidence**: The Quranic term *Rijs* (abomination) in 5:90 applies to the action of drinking. The Sahabah poured prohibited wine into the streets of Madinah, an act fo
with physical filth.
- **Verdict**: Ethanol in cosme
perfumes is pure to touch
permissible for external us

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Practical Implications of Purity

Perfumes & Colognes

Often contain high percentages of ethanol. Under the **physical impurity** view, wearing them invalidates **Salah** (صَلَاة). Under the **spiritual impurity** view, they are perfectly permissible for external use. (Many **modern fatwas** lean toward permissibility for **synthetic ethanol** in cosmetics).

Hand Sanitizers & Medical Swabs

Widely accepted across modern juristic bodies.
Validated by **extreme necessity**, **external application** only, and **rapid evaporation** that leaves no physical trace.

Creams, Lotions & Deodorants

Often use **complex**, **non-intoxicating fatty alcohols** (**cetyl**, **stearyl**). These are **scientifically distinct** from ethanol, completely non-intoxicating, and **universally Halal** (حَلَال) for external use.

Manufacturing Environments

Using **alcohol-based sanitiz**
Halal food-processing ma
Permitted due to **rapid ev**
sanitizes without transfer
to the food.

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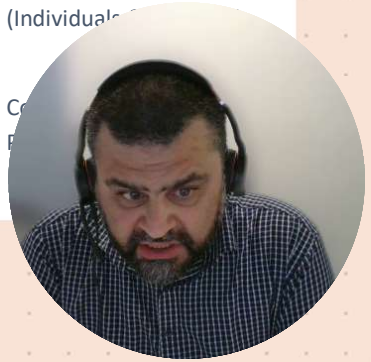
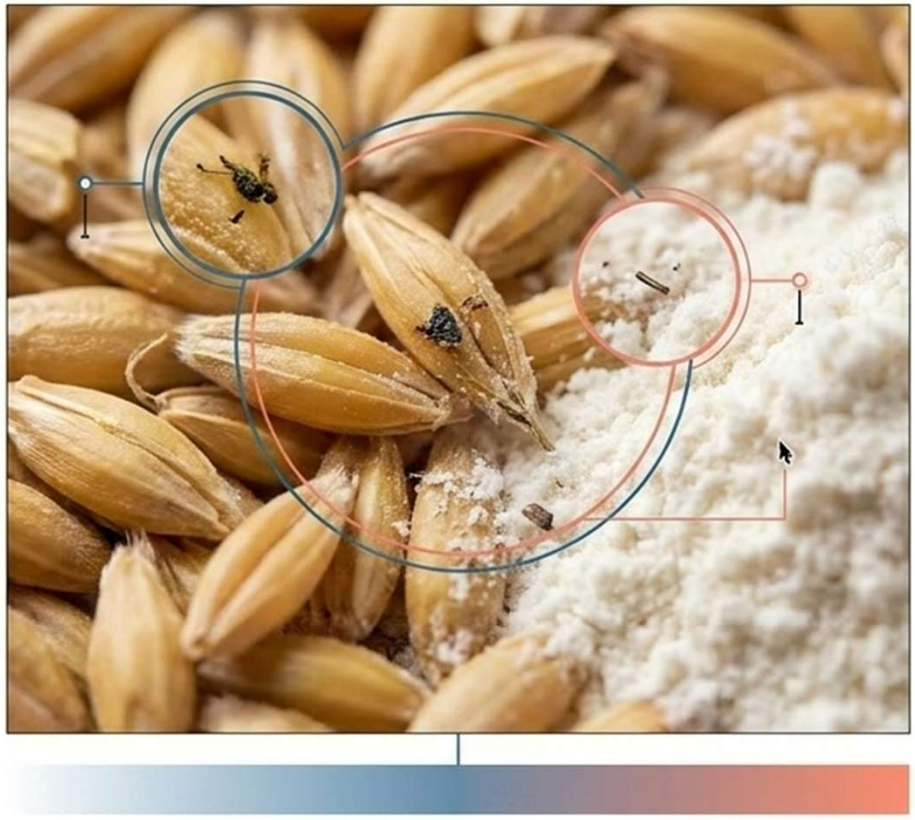


Unavoidable Trace Contaminants



The Principle of *'Umūm al-Balwā* (عموم البلوى):

A widespread, unavoidable predicament that justifies legal relaxation.

Agricultural Realities:

Agricultural products like honey, grains, and flour inevitably contain microscopic, incidental insect fragments or ambient environmental carryover.

The Ruling:

Because eliminating these completely v
extreme hardship (*Mashaqqah*), these
unintentional traces are pardoned und
Ka'l-Ma'dūm.

(Note: The intentional consumption of edible insects is a separate category governed by different rules).

The Concession, Not The Rule

The Core Maxim:
Al-Qalil Kal-Ma'dum (القليل كالمعدوم)

The negligible is treated as non-existent.

- **Synthesis Insight:** Istihlak sits at the intersection of molecular reality and human psychology. Absolute zero-percent purity is a scientific **impossibility** in an industrialized world. By treating **undetectable, unintentional traces as legally non-existent,** Shariah achieves two things:
- 1. It allows Muslims to navigate modern global food s without undue hardship (Umoom al-Balwa).
- 2. It acts as a profound psychological safeguar Waswasah (obsessive religious paranoia), er remains a source of ease rather than anxiety.

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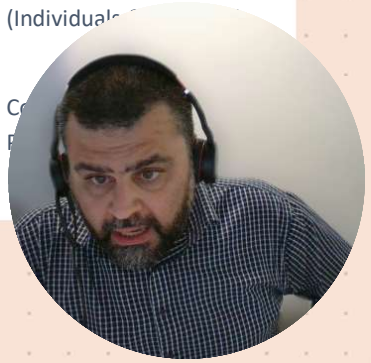
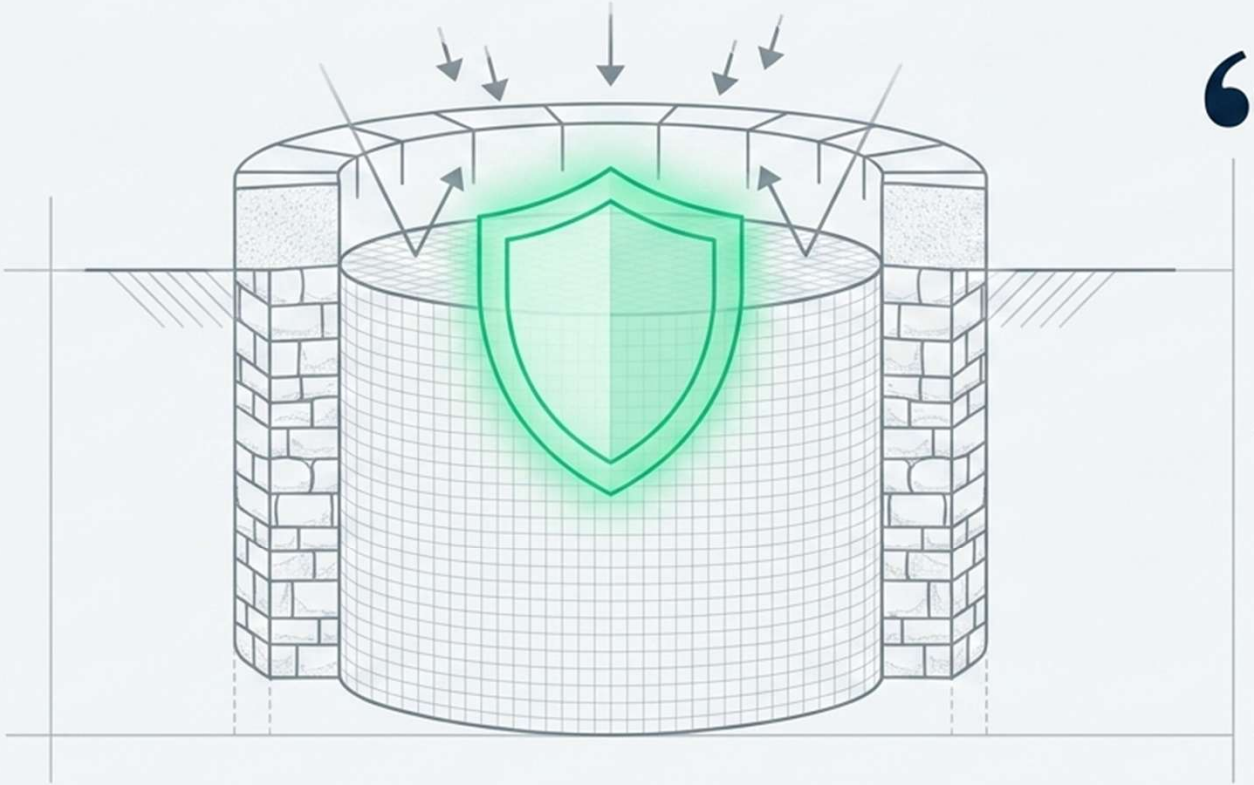


The Textual Foundation of Dilution

Core Evidence: The Hadith of the Well of Buda'ah.



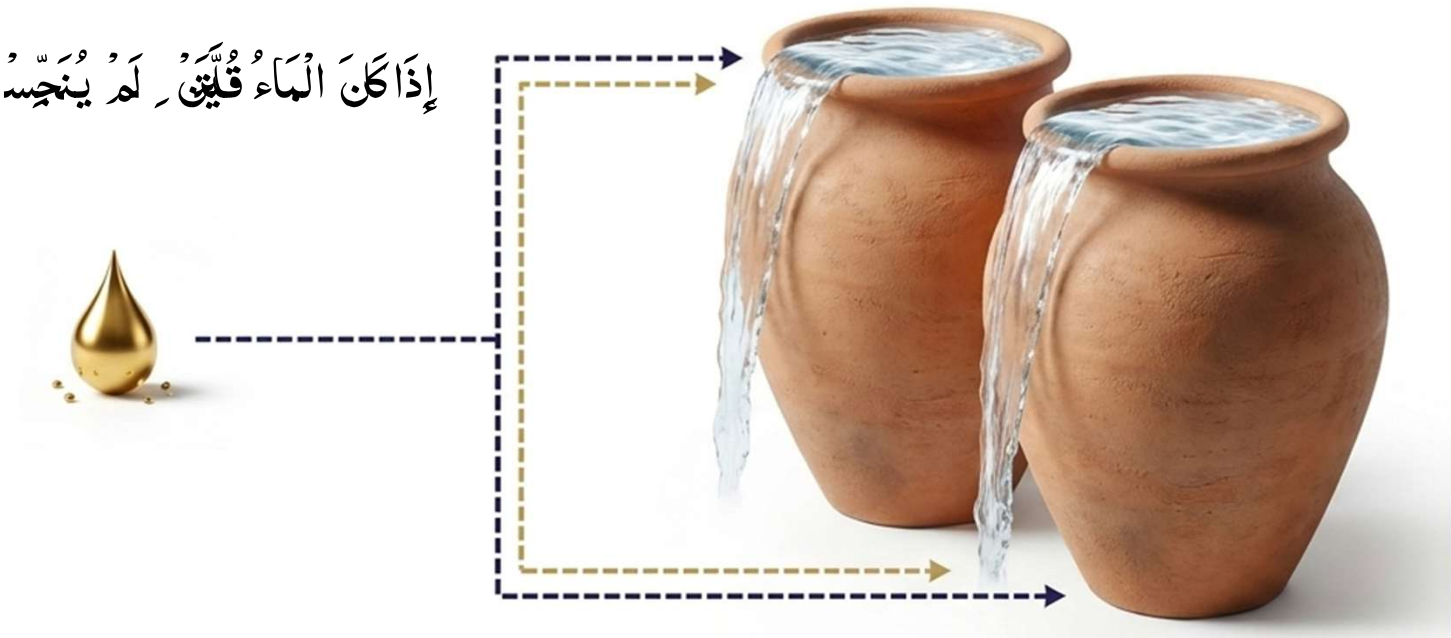
> *"Water is pure and nothing makes it impure [unless its color, taste, or smell changes]."*

The Prophet established the fundamental law of volume: A dominant, pu... not rendered impure by mi... unless specific sensory th... breached. The impurity is... "absorbed" (*Mustahlaka*)...

emini Notebook

Textual Precedents and the Classical Baseline

إِذَا كَانَ الْمَاءُ قُلَّتَيْنِ لَمْ يُنَجِّسْهُ شَيْءٌ



The Baseline of Volume (Qullatayn): Classical Shafi'i and Hanafi jurists established physical baselines for negligible impurities using the concept of Qullatayn (القلتين)—roughly two large jars of water.

The Rule: If a body of water reaches this massive volume, minor trace impurities are naturally overwhelmed and cannot alter the legal purity of the medium.

THE PROPHETIC STANDARD

Hadith of the Well of Buda'ah:
"Water is pure and nothing makes it impure [unless its color, taste, or smell changes]."

This established the rule that impurities only corrupt a medium [illegible] activ[illegible] ser[illegible]

Gemini Notebook

Lesson Progression Map

A structured journey through definitions, legal principles, and modern applications

01

Foundations

- Everyday Substances Containing Alcohol
- Defining Khamr
- Classification of Alcohols

02

Core Principles

- Ritual Impurity (Najasah)
- Water Volume Thresholds (2 Qullahs)
- Transformation & Dilution (Istihlak)

03

Legal Maxims

- Intoxicants: Large vs. Small Quantities
- The Negligible is Non-Existent (Al-Qaleelu)
- Widespread Hardship (Umoom Al-Balwa)

04

Modern Context

- Fatawa on Trace Amounts
- Industry Standards & Thresholds
- Cosmetics & Medicinal Use

05

Practical Guides

- Matters Judged by Intentions
- Decision Trees (Individuals
- C

The Principle of *Istihlāk* (الاستهلاك)

Visual Metaphor

***Al-Istihlāk* (Absorption & Dilution):** The legal mechanism where a negligible trace of a prohibited substance is mixed into a vast quantity of a Halal substance.

The 3 Conditions for *Istihlāk*

1. The trace substance must **lose all its physical properties** (Taste, Color, Smell) in the mixture.
2. The final product must be **entirely incapable of causing intoxication**, even if consumed in massive, medically hazardous quantities.
3. The trace alcohol (usually industrial ethanol) was **not derived** from a beverage intended for intoxication (like wine or beer).

Result: Under many contemporary fatwas, products like soft drinks using ethanol-based flavor carrie

NotebookLM

Istihlak Sahih
(Valid Dilution)

Status: **Halal / Permissible.**

Complete physical state of absorption where the impurity is entirely undetectable.

Istihlak Fasid
(Invalid Dilution)

Status: **Haram / Impermiss**

The physical state where even one
(e.g., the smell of alcohol or the co
remains discernible in the finished p

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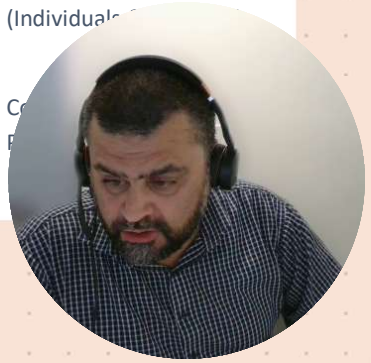
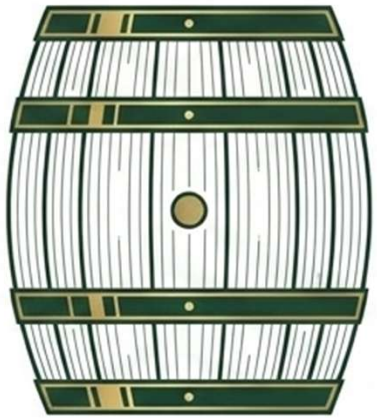


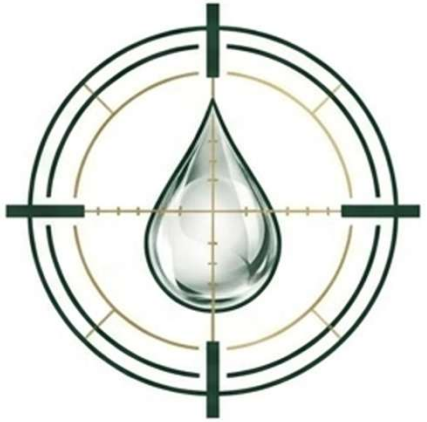
The Volume Principle

LARGE VOLUME



The Intoxication Scale

SINGLE DROP



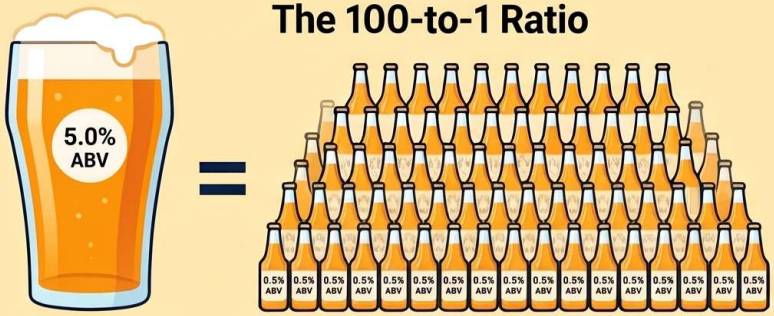
Whatever intoxicates in a large amount, a small amount of it is *haram*. (Hadith o

APPLICATION: If consuming a large volume of a specific liquid would cause a person to lose their fac
consuming even a single drop of that exact same liquid is prohibited. The prohibition is tied to the n
substance itself, not the biological tolerance of the individual consuming it.

Trace Alcohol vs. The Human Body: Why Your Food Won't Make You Tipsy

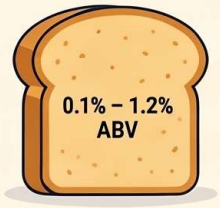
THE MICROSCOPIC SCALE OF TRACE AMOUNTS

The 100-to-1 Ratio

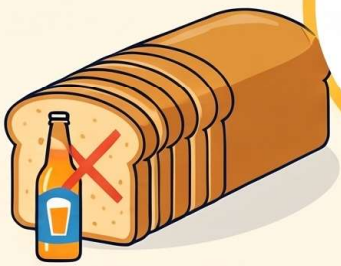


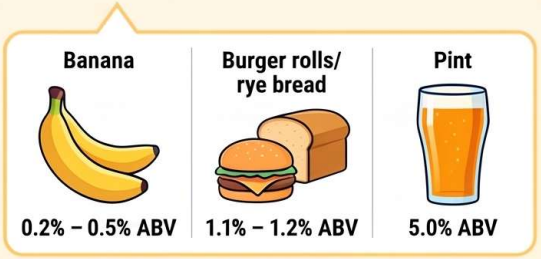
You must drink 100 bottles of 0.5% ABV beer to match one 5% pint.

Bread vs. Beer



One slice of bread contains roughly 1/300th of a standard alcoholic drink.





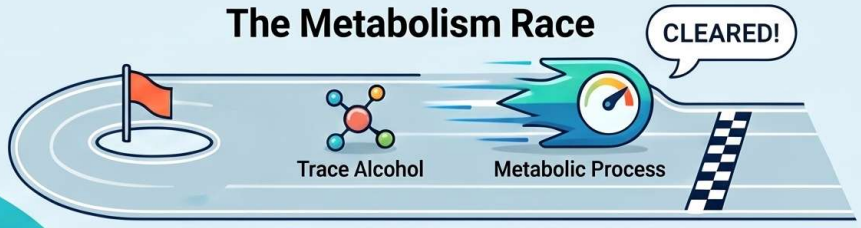
The "Carb Barrier"

You would need 24+ slices of bread to equal one beer; volume prevents intoxication.

Trace amounts are **BIOLOGICALLY INCAPABLE** of causing intoxication due to liver efficiency and volume required.

YOUR BODY'S METABOLIC ENGINE

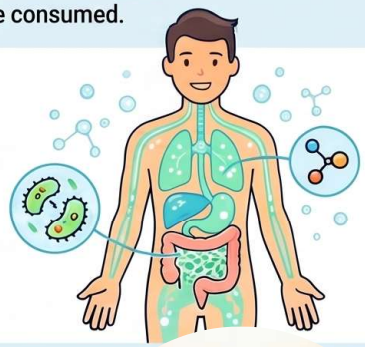
The Metabolism Race



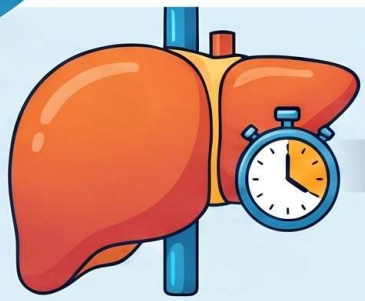
The body clears trace amounts of alcohol faster than they can physically be consumed.

Your Body is an Internal Distillery

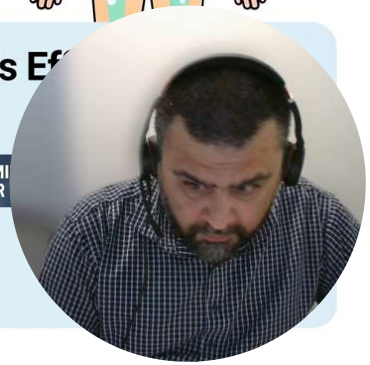
Natural metabolic processes and intestinal bacteria produce trace alcohol daily, equivalent to several beers.



The Liver's Ef



Standard Drink



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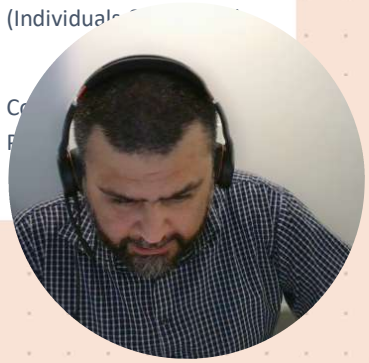
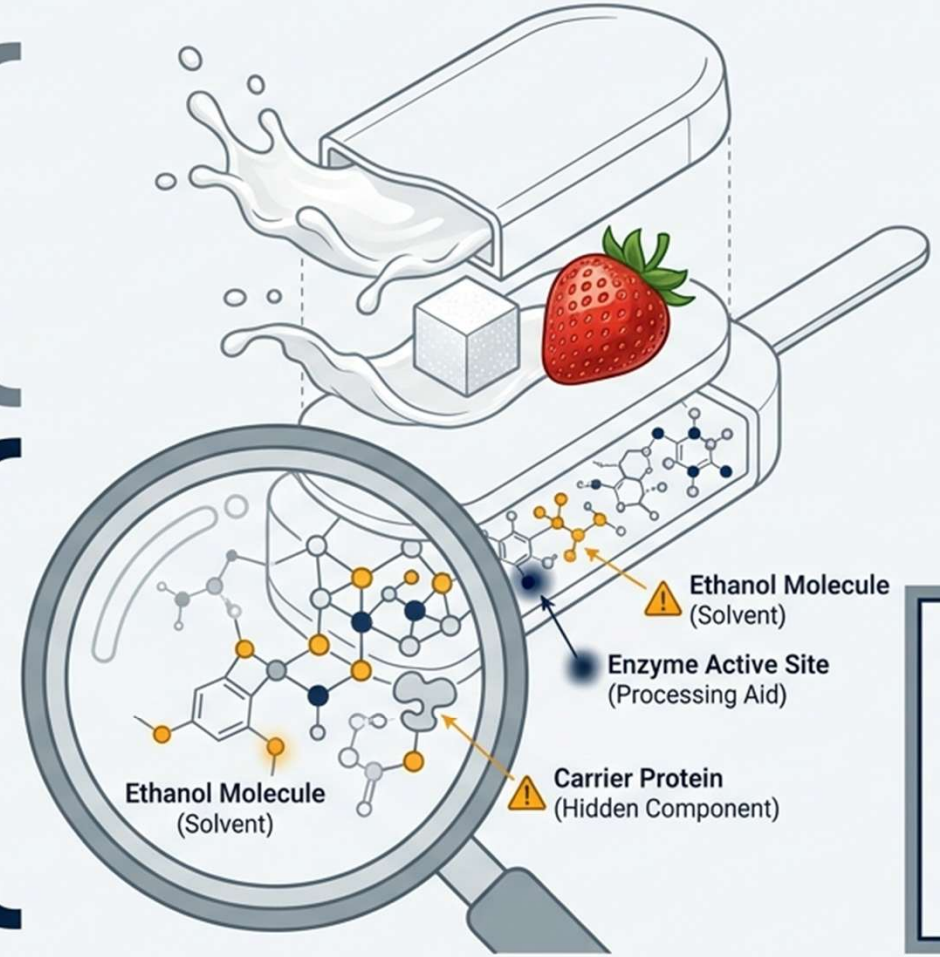


The Modern Food Formulation Dilemma

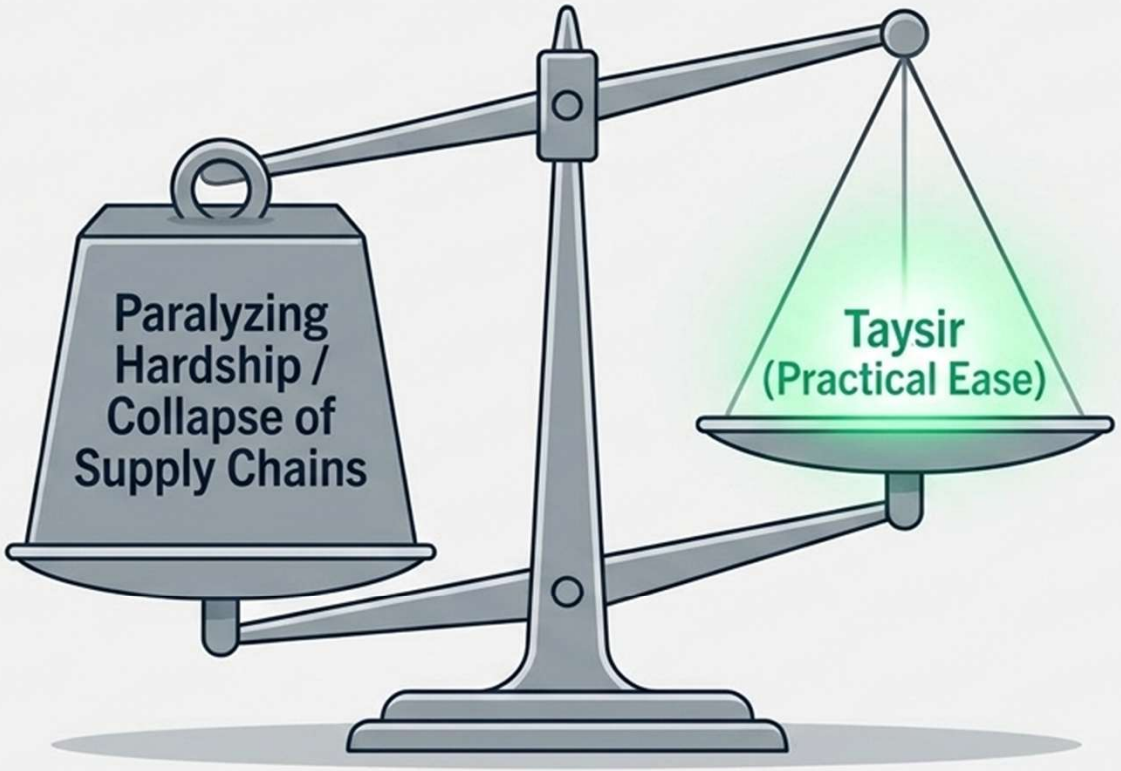
Macro-Ingredients:
99.9% Permissible and obvious.

Micro-Ingredients:
The hidden 0.1%. Carriers, extraction solvents (like ethanol), and enzymes.



Modern food formulation relies on micro processing a Shariah risk Islamic juri address the

Umoom al-Balwa: The Principle of Unavoidable Predicament



Concept

Why does Shariah allow Istihlak? If trace, undetectable solvents were utterly banned, the modern global medicine and food supply chains would collapse.

Synthesis

Islam is a religion of practical ease, not paralyzing hardship. The law acknowledges widespread necessity (Umoom al-B provides a structured mechanism to maint without impossible r

The Principle of Umoom al-Balwa (عموم البلوى)

Definition

‘Unavoidable public predicament.’ A legal principle providing leniency when a matter becomes so widespread in society that avoiding it causes undue hardship.

The Kuwait IOMS Consensus

It is permissible to take foods where a slight amount of alcohol is used for the purpose of dissolving materials that are insoluble in water, such as coloring agents and preservatives.

Reasoning

Based on Umoom al-Balwa and the scientific reality that most added alcohol evaporates during the production process.